

**NEW HILL MEMORIAL LIBRARY
LOUISIANA STATE UNIVERSITY**

JOURNAL

OF THE

American Veterinary Medical Association

FORMERLY

AMERICAN VETERINARY REVIEW

Original Official Organ U. S. Vet. Med. Ass'n.

Edited and Published for

THE AMERICAN VETERINARY MEDICAL ASSOCIATION

By

H. PRESTON HOSKINS, DETROIT, MICH.

EXECUTIVE BOARD

**GEORGE HILTON, 1st District; T. E. MUNCH, 2d District; D. S. WHITE, 3d District; J. R. MOHLER,
4th District; C. H. STANGE, 5th District; GEO. H. HART, 6th District; CASSIUS
WAY, Member at Large. CHAIRMAN**

SUB-COMMITTEE ON JOURNAL

D. S. WHITE

J. R. MOHLER

Volume LXXI

NEW SERIES VOLUME 24

April, 1927, to September, 1927

DETROIT, MICH.

1927

INDEX OF AUTHORS

- Achard, Herman J., 313.
 Atherton, I. K., 96.
 Baird, Wm. H. W., 713.
 Barger, E. H., 560.
 Barnes, M. F., 514, 578.
 Bell, Wm. M., 509, 774.
 Bengston, John S., 39.
 Benner, James W., 58.
 Biester, H. E., 510.
 Brock, W. G., 150.
 Brueckner, 514, 578.
 Bruins, Paul F., 728.
 Bullard, J. F., 76.
 Bushnell, L. D., 764.
 Case, C. H., 21.
 Chandler, W. L., 218.
 Couch, James F., 774.
 Crimmins, M. L., 704.
 Day, L. Enos, 39.
 Dimock, W. W., 25, 31.
 Donhan, C. R., 215.
 Dorset, M., 487.
 Dykstra, R. R., 425.
 Edwards, Philip R., 590.
 Ernest, L. B., 742.
 Ferguson, Wm. P., 230.
 Fincher, M. G., 9.
 Flynn, J. C., 212.
 Freeborn, Stanley B., 52.
 Giltner, Ward, 618.
 Glueck, Oscar, 574.
 Good, E. S., 25, 31.
 Graves, Earl F., 475.
 Griffin, Will C., 460.
 Gruhzt, O. M., 189.
 Guard, W. F., 507.
 Hansen, Albert A., 221.
 Hardenbergh, John G., 493, 607.
 Hart, Geo. H., 52, 347.
 Henley, R. R., 487.
 Hinshaw, W. R., 764.
 Hoberg, John, 78.
 Horning, J. G., 35, 210, 304.
 Howell, Carroll E., 52, 347.
 Huddleson, I. Forest, 231.
 Hull, Floyd E., 590.
 Johnson, E. T., 471.
 Johnson, W. T., 750.
 Jungherr, Erwin, 636.
 Kennedy, Walter P., 713.
 Klein, Louis A., 568.
 Kudo, R. R., 466.
 Lames, H. S., 642.
 Lebish, Jacob, 641.
 Little, George Watson, 171.
 McBryde, C. N., 368.
 McKee, A. J., 304.
 McNutt, G. W., 728.
 Mallman, W. L., 600.
 Mann, Frank C., 493.
 Mathews, F. P., 585.
 Mayo, N. S., 83, 387, 773, 779.
 Milks, H. J., 159.
 Moore, Hamlet, 82.
 Morris, Harry, 643.
 Moskey, H. E., 487.
 Munce, T. E., 322.
 Murray, Charles, 510.
 Patterson, John, 229.
 Pearson, Raymond A., 502.
 Raffensperger, H. B., 39.
 Rich, T. S., 451.
 Rietz, J. H., 473.
 Rife, C. C., 296.
 Rosenow, Edward C., 378.
 Sanders, C. L., 79.
 Sanders, D. A., 361.
 Schaffter, E. P., 624.
 Schlingman, A. S., 189.
 Schneider, Rudolph, 339.
 Schnelle, Gerry B., 228.
 Seely, M. J., 386.
 Shaw, J. N., 723.
 Shealey, A. L., 361.
 Sheard, Charles, 607.
 Simms, B. T., 215, 723.
 Stafseth, H. J., 471.
 Strockbine, James K., 74.
 Tittsler, Ralph P., 80.
 Vance, Arthur, 444.
 Watson, E. A., 732.
 Wright, J. C., 281.
 Wright, W. H., 249.
 Zupp, B. A., 384.

LIST OF ILLUSTRATIONS

DIGESTIVE DISTURBANCES OF CATTLE, 9.

Fig. 1. Torsion of stomach—calf, 19.

THE OBSTETRICAL CLINIC AT THE DANISH ROYAL VETERINARY AND AGRICULTURAL COLLEGE, COPENHAGEN, 35.

Fig. 1. Stable, showing door opening into preparation-room, 35.

Fig. 2. Same view, showing operating-table in elevated position, 36.

Fig. 3. One of the heifers cast and fixed on the table, 36.

Fig. 4. Heifer in the act of calving, covered with sterile wax-cloth, 37.

Fig. 5. Patient on table, covered with wax-cloth, the vulva being exposed to the operator, 37.

Fig. 6. Another position of the heifer during delivery, 38.

PARASITIC NODULES RESEMBLING TUBERCULOSIS IN THE LUNGS OF SWINE, 39.

Fig. 1. Portion of a parasitic nodule pressed between two glass slides and unstained, 46.

Fig. 2. Stained section of a parasitic nodule, showing distinct grape-like clusters of lymphocytes scattered through the nodules, 46.

Fig. 3. A portion of a degenerated parasitic nodule containing ova is seen in the center of the picture, 48.

Fig. 4. Stained sections of a parasitic nodule showing ova containing embryos within a degenerated bronchiole, 48.

ACTINOBACILLOSIS IN A FEED-LOT, 71.

Fig. 1. Different views of swellings shown by cases of actinobacillosis, 72.

SCIRRHOUS CORD IN A PIG, 76.

Fig. 1. Two views of extreme cases of scirrhus cord, 77.

A FEATHER CYST IN A GANDER, DUE TO MISPLACED TISSUE, 80.

Fig. 1. External view of cyst, 80.

Fig. 2. Internal structure of cyst, 81.

PORTRAIT, CAPT. R. A. KELSER, 97.

RESTRAINT AND MEDICATION OF SMALL ANIMALS, 150.

Fig. 1. Mouth speculums, 151.

Fig. 2. Hobbles made from split chrome leather, with small spring-snap, 152.

Fig. 3. Irrigating can with attachments for enteroclysis, 154.

Fig. 4. Proper method of using mouth speculum on cat, 155.

Fig. 5. Cat dose-syringe and 2-dram homeopathic vial, 157.

Fig. 6. Method of using the dose-syringe with the mouth speculum (cat), 158.

SOME STUDIES IN THE BEHAVIOR OF MALIGNANT GROWTHS IN DOGS AND HORSES, 171.

Fig. 1. Myxosarcoma of lower jaw of dog, 175.

Fig. 2. Photomicrograph of myxosarcoma (dog), 176.

Fig. 3. Squamous carcinoma of eyelid of horse (photo taken, Dec. 4, 1920), 179.

Fig. 4. Photomicrograph of squamous carcinoma (horse), 180.

Fig. 5. Same horse as shown in figure 3, May 20, 1921, 181.

Fig. 6. Adenocarcinoma of mammary gland of bitch, followed by recovery, 182.

STUDIES ON THE TOXICITY OF TETRACHLORETHYLENE, A NEW ANTHELMINTIC (PLATES I-VI), 189.

Fig. 1. Liver of chicken, 204.

Fig. 2. Liver of chicken, 204.

Fig. 3. Liver of cat, 204.

Fig. 4. Liver of cat, 204.

Fig. 5. Liver of fox, 205.

Fig. 6. Liver of fox, 205.

Fig. 7. Liver of calf, 205.

Fig. 8. Liver of calf, 205.

Fig. 9. Liver of horse, 206.

Fig. 10. Liver of horse, 206.

Fig. 11. Liver of sheep, 206.

Fig. 12. Liver of sheep, 207.

Fig. 13. Liver of normal pup, 207.

Fig. 14. Liver of pup, 207.

- Fig. 15. Liver of pup, 207.
- Fig. 16. Liver of pup, 208.
- Fig. 17. Liver of pup, 208.
- Fig. 18. Liver of pup, 208.
- Fig. 19. Liver of pup, 208.
- Fig. 20. Liver of pig, 209.
- Fig. 21. Liver of pig, 209.

STOCK POISONING BY PLANTS OF THE NIGHTSHADE FAMILY, 221.

- Fig. 1. Nightshade, a poisonous plant, 222.
- Fig. 2. Bull nettle, showing the flowers, berries, leaves and prickly stem, 223.
- Fig. 3. Green sprouts of the common white potato may develop dangerous quantities of the poisonous alkaloid, solanin, 225.
- Fig. 4. Jimson weed (*Datura stramonium*), 226.

PORTRAIT, DR. A. J. DICKMAN, 245.

WHITE SNAKEROOT EXHIBIT, 246.

- Fig. 1. White snakeroot exhibit, 246.
- Fig. 2. White snakeroot plant, 247.

PERORAL ENDOSCOPY, 304.

- Fig. 1. Chevalier Jackson practice-board, 304.
- Fig. 2. Laryngoscope, 305.
- Fig. 3. Placement of cork on canine teeth to hold the mouth open, 306.
- Fig. 4. Irrigating and aspirating bronchoscope, 307.
- Fig. 5. Curved aspirating tube, 308.
- Fig. 6. Clerf atomizer, 309.
- Fig. 7. Ballooning esophagoscope and gastroscope, 310.
- Fig. 8. Tucker tack and pin forceps, 311.
- Fig. 9. Rotation forceps, 311.
- Fig. 10. Battery for scopes, 311.
- Fig. 11. Battery cords, 311.

INVESTIGATIONS OF STEPHANURUS DENTATUS (KIDNEY WORM) OF HOGS. PRELIMINARY REPORT, 361.

- Fig. 1. On left, ureter dissected longitudinally, showing fistulous tract entering organ. On right, cross-section of ureter, showing parasitic cyst and fistulous tract, 362.
- Fig. 2. Ureter dissected longitudinally, showing two fistulous tracts containing parasites, 363.
- Fig. 3. Kidney and portion of ureter, showing small fistulous tracts and two parasites near pelvis of kidney, 364.
- Fig. 4. On left, parasitic cyst, containing parasite. On right, adult female, *Stephanurus dentatus*, 365.
- Fig. 5. Lung, showing presence of parasite, 365.
- Fig. 6. *Stephanurus dentatus* occurring within spinal canal, 366.

PORTRAIT, DR. E. R. STEEL, 402.

ANATOMICAL CHANGES IN LAMENESSES OF THE HORSE, 425.

- Fig. 1. Generalized arthritis, with practically complete ankylosis of all the bones of the hock joint, 430.
- Fig. 2. A typical spavin, with ankylosis of the fused first and second tarsals, the third tarsal, the central tarsal and the metatarsals, 431.
- Fig. 3. A profile of the preceding, 431.
- Fig. 4. This is a comparatively small spavin, 432.
- Fig. 5. End view of the preceding. The dark spot in the center is an inflamed area, 432.
- Fig. 6. Fused third and central tarsals. An occult spavin, 432.
- Fig. 7. A view of the same from behind, 432.
- Fig. 8. Ventral surface of the fused first, second, third and central tarsals. An occult spavin, 432.
- Fig. 9. Diseased dorsal surface of the central tarsal. No external manifestation, 432.
- Fig. 10. A very large spavin in a typical location, 433.
- Fig. 11. Same as the preceding. Showing the involvement of the articular surfaces of the first, second and third tarsals, 433.
- Fig. 12. A good example of a peripheral spavin—fusion of the metatarsals with the first, second, third and fourth tarsals, 435.
- Fig. 13. A medially localized spavin, 435.
- Fig. 14. A spavin with incomplete fusion of the neighboring bones, 435.
- Fig. 15. Another example of a spavin that might be called a "rough hock" by the inexperienced, 435.

88127

- Fig. 16. The exostosis is virtually on the anterior surface, 435.
 Fig. 17. An extensive articular ringbone that has also become periarticular (front view), 436.
 Fig. 18. Same (profile view), 436.
 Fig. 19. Complete ankylosis of the first and second phalanges as a result of articular ringbone, 438.
 Fig. 20. Complete ankylosis as the result of articular ringbone, 438.
 Fig. 21. An articular ringbone, with fusion of the first and second phalanges, 438.
 Fig. 22. A typical periarticular ringbone, 438.
 Fig. 23. A traumatic ringbone, 440.
 Fig. 24. Chronic gonitis in a colt, 439.

PHOTOGRAPH, WILLIAM PENN'S HOUSE, FAIRMOUNT PARK, PHILADELPHIA, 459.

PHOTOGRAPH, HEART OF PHILADELPHIA, 474.

THE AUTO-INHALATION METHOD OF ANESTHESIA IN CANINE SURGERY, 493.

- Fig. 1. Front view of etherizing cabinet; method of fastening lid, windows in lid and switch for controlling hot plate, 494.
 Fig. 2. End view of cabinet; funnel for introducing ether into ether-pan, hot plate beneath ether-pan and method of lighting interior of cabinet, 495.
 Fig. 3. Top view of cabinet with lid lifted; rubber tubing set into rim and removable pan with grating in bottom of cabinet, 496.
 Fig. 4. Simple type of cabinet; two windows in lid and funnel leading to inside sponge-basket, 497.
 Fig. 5. Cabinet with lid lifted; removable sponge-basket, rubber tubing set into rim of cabinet, and removable grating for bottom of cabinet, 498.
 Fig. 6. Inhalation apparatus with two sizes of intratracheal tubes, 499.

A COMPLICATED CASE OF PROLAPSED RECTUM, 507.

- Fig. 1. Prolapsed rectum, 507.
 Fig. 2. Operative procedure, 508.

UNUSUAL PHYSICAL PROPERTIES OF MUSCLE FAT IN YOUNG BEEF, 510.

- Fig. 1. Showing parts of three primary bundles with advanced fat infiltration, 511.
 Fig. 2. Showing involvement of individual muscle fibers and larger groups, 512.

SOME CASES OF INTEREST, 514.

- Fig. 1. Section of liver (B. A. I. 16045) showing multiple necrotic areas caused by *Actinomyces necrophorus*, 517.
 Fig. 2. Section of liver (B. A. I. 16215) showing areas of focal necrosis caused by *Actinomyces necrophorus*, 518.
 Fig. 3. B. A. I. 14536. Bull 37. Section through greatly enlarged right testicle and scrotum showing orchitis, periorchitis, epididymitis and thickening of spermatic cord, 519.
 Fig. 4. B. A. I. 19928. Left and right testicles, sectioned, from a bull, 15 years of age, which had been a known reactor to the abortion blood-test for a period of ten years, 520.
 Fig. 5. B. A. I. 19829. Section of testicle of a bull which reacted to the abortion blood-test, showing orchitis, periorchitis, epididymitis, cord enlargement, fibrous tissue formation and adhesions, 521.
 Fig. 6. B. A. I. 21267. Greatly enlarged testicle from a bull which reacted to the abortion blood-test, showing fibrous tissue and adhesions and having the testicle proper completely replaced by one large abscess, 522.
 Fig. 7. Photograph showing the scrotum of a bull now under observation, 523.

PHOTOGRAPH, STATUE OF WILLIAM PENN ON TOP OF CITY HALL TOWER, PHILADELPHIA, 529.

PORTRAIT, DR. GEORGE HILTON, 551.

PHOTOGRAPH, MUNICIPAL STADIUM, PHILADELPHIA, 555.

OSTERTAGIA OSTERTAGI IN CALIFORNIA CATTLE, WITH COPPER SULPHATE AN APPARENTLY SUCCESSFUL THERAPEUTIC, 560.

- Fig. 1. Mucosa of abomasum of bovine infested with *Ostertagia ostertagi*, 562.

FLIES, THEIR PATHOGENIC IMPORTANCE AND EXTERMINATION, 574.

- Fig. 1. The head, proboscis and mouth-parts of a house-fly, greatly enlarged, 574.
 Fig. 2. Diagram showing the digestive apparatus of a fly, 575.
 Fig. 3. A fly regurgitating fluid after a meal, 576.

PHOTOGRAPH, INDEPENDENCE HALL, PHILADELPHIA, 577.

THE POSSIBLE ROLE OF RADIANT THERAPY IN DEMODECTIC MANGE, 607.

- Fig. 1. *Demodex folliculorum* var. *canis* (x 60), 608.
 Fig. 2. *Demodex folliculorum* var. *canis* (x 200), 609.
 Fig. 3. Dog from which skin scrapings, containing *Demodex folliculorum*, were obtained, 610.

- PHOTOGRAPH, BETSY ROSS HOUSE, PHILADELPHIA, 623.
- PHOTOGRAPH, CARPENTER'S HALL, PHILADELPHIA, 635.
- TWO INTERESTING TURKEY DISEASES, 636.
 Fig. 1. Crop of turkey (mycosis), 638.
 Fig. 2. Mycelium of fungus, 639.
- ECHINOCOCCUS CYSTS IN THE LIVER OF HOGS, 643.
 Fig. 1. Echinococcus cysts in lobe of hog liver, 644.
- PHOTOGRAPH, COMMERCIAL MUSEUM, PHILADELPHIA, 660.
- PHOTOGRAPH, ACADEMY OF MUSIC, PHILADELPHIA, 664.
- PHOTOGRAPH, GROUP PICTURE TAKEN AT THE SEVENTH ANNUAL MEETING OF THE STATE VETERINARY MEDICAL ASSOCIATION OF TEXAS, COLLEGE STATION, JUNE 13-18, 1927, 672.
- PORTRAIT, UNITED STATES VETERINARY MEDICAL ASSOCIATION, PHILADELPHIA, 1894, 689.
- PORTRAIT, DR. E. A. CAHILL, 693.
- PORTRAIT, DR. N. F. WILLIAMS, 693.
- PORTRAIT, DR. E. M. PICKENS, 694.
- PORTRAIT, DR. R. A. RUNNELLS, 694.
- PORTRAIT, DR. J. N. FROST, 696.
- PORTRAIT, DR. E. P. ALTHOUSE, 696.
- PORTRAIT, DR. F. R. WHIPPLE, 697.
- PORTRAIT, DR. H. J. MILKS, 697.
- FACTS ABOUT TEXAS SNAKES AND THEIR POISONS, 704.
 Fig. 1. Western diamond-back rattlesnake, 705.
 Fig. 2. The author snaring a rattlesnake, 707.
 Fig. 3. "Milking" a rattlesnake, 709.
- PHOTOGRAPH, WITHIN THE COURTYARD OF THE VETERINARY BUILDING, UNIVERSITY OF PENNSYLVANIA, 712.
- DIFFUSE CYSTIC ENDOMETRITIS, 713.
 Fig. 1. Lateral radiograph of case 1, showing lipiodol and silver catheter in left cornu of the uterus, which is partly obstructed, 714.
 Fig. 2. Antero-posterior radiograph of case 1. Only a small quantity of lipiodol has entered the right cornu, 714.
 Fig. 3. Lateral radiograph of case 2. Right cornu seen to be obstructed at the ovarian end, 716.
 Fig. 4. Antero-posterior radiograph of case 2; left cornu entirely blocked, 716.
 Fig. 5. Uterus of case 1. A portion of the wall has been removed to show the mucosa. The ovaries can also be seen, 717.
 Fig. 6. Section of endometrium of case 1, showing large cyst, 718.
 Fig. 7. Section of endometrium of case 2, 718.
 Fig. 8. Section of endometrium of rabbit, to show glandular retention cysts, 720.
- PHOTOGRAPH, MAIN ENTRANCE TO THE VETERINARY SCHOOL, UNIVERSITY OF PENNSYLVANIA, 722.
- PHOTOGRAPH, WITHIN THE COURTYARD OF THE VETERINARY BUILDING, UNIVERSITY OF PENNSYLVANIA, 731.
- PHOTOGRAPH, A CORNER OF THE VETERINARY BUILDING, UNIVERSITY OF PENNSYLVANIA, 749.
- PHOTOGRAPH, CHESTNUT STREET, PHILADELPHIA'S SHOPPING DISTRICT, 763.
- PHOTOGRAPH, UNITED STATES MINT, PHILADELPHIA, 777.
- PHOTOGRAPH, VETERINARY HOSPITAL, FORT ROBINSON, NEBRASKA, 780.
- MINNESOTA STATE VETERINARY MEDICAL ASSOCIATION, 796.
 This group of live stock represents an important part of a veterinarian's practice, 796.
 Veterinarians are interested in pure-bred sires of good type, 797.
 Small-animal practice pays, 798.
 Interest in good saddle horses is increasing, 799.
 Horse power is in great demand on the farm, 800.
 A class of live stock found on many Minnesota farms, 801.
- PHOTOGRAPH, NORTHWESTERN OHIO VETERINARY MEDICAL ASSOCIATION, 802.

INDEX OF SUBJECTS

Abstracts:

- Bacteria in Muscular Tissues and Blood of Apparently Normal Animals, 526.
 Black-Quarter in South Africa: With Special Reference to Improved Methods of Inoculation, 391.
 Cod-Liver Oil on Thyroparathyroidectomized Dogs, Effect of, 90.
 Coccidiosis in Mammals 91.
 Dog-Distemper, Studies in.
 I. Dog-Distemper in the Ferret, 236.
 II. Experimental Distemper in the Dog, 238.
 III. The Nature of the Virus, 240.
 Encephalitis in Dogs, Epidemic, 91.
 Glycémie Normal chez les Bovides. Glycémie et Maladie Vitulaire chez les Vaches Laitière, (Normal Glucose Content of the Blood in Bovines. Glycemia and Milk Fever in Milk Cows), 89.
 Hundentuberkulose mit Einem Nichtzucht-baren Virus (Tuberculosis in Dogs Caused by Non-Cultivable Acid-Fast Bacilli), 648.
Microfilaria Immitis Infection by Intravenous Injection of Sodium Antimony Tartrate, Studies on the Treatment of, 525.
 Sodium Antimony Tartrate, Studies on the Treatment of *Microfilaria Immitis* Infection by Intravenous Injection of, 525.
 Rabies in Paris, Impressions from the International Conference on, 650.
 Rabies, Reflections About Compulsory Vaccination of Dogs Against, 648.
 "Sancorysin" in Tuberculosis, Effects of, 526.
 Thyroparathyroidectomized Dogs, Effect of Cod-Liver Oil on, 90.
 Tuberculose Humaine au Chien, Experiences de Transmission de la (Experiments in the Transmission of Human Tuberculosis to the Dog), 648.
 Tuberculosis, Effects of "Sancorysin" in, 526.
 Army Veterinary Service, 92, 243, 394, 528, 651, 778.
 Essay Awards, Prize, 528.
 Essay Contest, Notice of, 782.
 Examination for Appointment in the Veterinary Corps, Regular Army, Notice of, 652.
 Fort Robinson Remount and Breeding Depot, 779.

Association News:

- American Veterinary Medical Association:
 Applications for Membership, 5, 147, 278, 420, 556, 700.
 Bang at Philadelphia, Professor, 552.
 Directory, Membership, 146.
 Executive Board, Chicago, Ill., December 1, 1926, Minutes of the Meeting of the, 661.
 Executive Board Election, 4, 146, 277, 415, 551.
 Financial Report—Dr. M. Jacob, Treasurer, December 31, 1926, 250.
 Garages, Philadelphia, 554.
 Hotels, Philadelphia, 552.
 Program, Outline of, 691.
 Program, Philadelphia Meeting, 692.
 Service Clubs of Philadelphia, 690.
 Women's Auxiliary, 99, 784.
 Report of the Tenth Annual Meeting, 401.

Other Meetings:

- Arkansas Veterinary Association, 116.
 California State Veterinary Medical Association, 667.

- Central Canada Veterinary Medical Association, 789.
 Central Michigan Veterinary Medical Association, 539.
 Central New York Veterinary Medical Association, 666.
 Connecticut Veterinary Medical Association, 125, 804.
 Cornell University, Nineteenth Annual Conference for Veterinarians at, 111.
 Cuban National Veterinary Association, 125.
 Eastern States Tuberculosis Conference, Atlantic City, 1927, 658.
 Florida State Veterinary Medical Association, 262.
 Illinois State Veterinary Medical Association, 100.
 Indiana-Illinois Veterinary Medical Association, 674.
 Iowa Veterinary Association, 118.
 Kentucky Veterinary Medical Association, 793.
 Keystone Veterinary Medical Association, 406.
 Lake States Tuberculosis Eradication Conference, 579.
 Long Island Veterinary Medical Association, 105.
 Manitoba, Veterinary Association of, 261, 790.
 Maryland State Veterinary Medical Association, 121.
 Massachusetts Veterinary Association, 127, 665.
 Michigan State College Post-Graduate Short Course, 123.
 Michigan State Veterinary Medical Association, 676.
 Minnesota State Veterinary Medical Association, 109, 796.
 Mississippi State Veterinary Medical Association, 115.
 Missouri Special Course for Graduate Veterinarians, University of, 256.
 Nebraska State Veterinary Medical Association, 105.
 Nevada State Veterinary Association, 106.
 New Jersey, Veterinary Medical Association of, 403.
 New York City, Veterinary Medical Association of, 104, 257, 404.
 New York State Veterinary Medical Society, 785.
 North Carolina State Veterinary Medical Association, 788.
 North Central Iowa Veterinary Medical Association, 791.
 North Dakota Veterinary Medical Association, 795.
 Northeastern Indiana Veterinary Medical Association, 674.
 Northeastern Pennsylvania Veterinary Medical Club, 263, 405, 542.
 Northwestern Indiana Veterinary Association, 675.
 Northwestern Ohio Veterinary Medical Association, 803.
 Oklahoma State Veterinary Medical Association, 791.
 Ontario Veterinary Association, 260.
 Pennsylvania Conference of Veterinarians, University of, 107.
 Pennsylvania, Veterinary Alumni Society, University of, 540.
 Saginaw Valley Veterinary Medical Association, 264.
 Southeastern Michigan Veterinary Medical Association, 127, 264, 406.
 Tennessee Veterinary Medical Association, 126.
 Texas, State Veterinary Medical Association of, 117, 670.
 Vermont Veterinary Medical Association, 675

Virginia State Veterinary Medical Association, 114.

Wabash Valley Veterinary Association, 675.

Births:..... 135, 272, 409, 545, 683, 810.

Book Reviews:

Anatomie des Pferdes, Atlas der (Atlas of the Anatomy of the Horse), 86.

Bacteriology, Manual of Veterinary, 646.

Breeding and Improvement of Farm Animals, 776.

Bureau of Animal Industry. Its History, Activities and Organization, The, 524.

Dachshund, The, 647.

Entwicklungsgeschichte der Haustiere, Lehrbuch der (Textbook of the Embryology of the Domesticated Animals), 86.

Geburtskunde, ein Physiologisches, Pathologisches und Geburtshilfliches Repetitorium für Tierärzte und Studierende, Tierärztliche, 87.

Operationslehre, Tierärztliche, 86.

Pathology and Therapeutics of the Diseases of Domestic Animals, Special, 388.

Pathologische Anatomie der Haustiere, Spezielle (Special Pathological Anatomy of Domesticated Animals), 88.

Physiology of Reproduction in the Cow, The, 776.

Police Dog, Training the, 647.

Sanguinicola, Plehn, Morphologische, Systematische und Entwicklungsgeschichtliche Untersuchungen an Arten des Genus (Morphological, Systematical and Embryological Investigations on Species of the Genus *Sanguinicola*, Plehn, 235.

Staupe des Hundes und ihre Behandlung, Die (Dog Distemper and Its Treatment), 235.

Tierheilkunde und Tierzucht, Eine Enzyklopädie der Praktischen Nutztierkunde (Veterinary Science and Animal Husbandry), 235.

Veterinar-Medizin, Leistungen auf dem Gebiete der (Work in the Field of Veterinary Medicine), 88.

Clinical and Case Reports:

Abortion Disease of Cattle, The Therapeutic Value of Proflavine and Acriflavine in the Carrier State in Bang's, 231.

Actinobacillosis in a Feed-Lot, 71.

Bronchitis of Cattle, Verminous, 773.

Cases of Interest, Some, 514.

Cesarean Operation in a Cow Ten Months After Conceiving, 509.

Choke in the Cow, Relief of, 774.

Complexity of General Veterinary Practice, The, 79.

Drop-foot by Ankylosing Operation, Correcting Paralyzed, 641.

Dyspnea, Respiratory, 386.

Echinococcus Cysts in the Liver of Hogs, 643.

"Fantoche," 82.

Fat in Young Beef, Unusual Physical Properties of Muscle, 510.

Feather Cyst in a Gander, Due to Misplaced Tissue, A, 80.

"Glucose" Treatment for Milk Fever, An Emergency, 229.

Hemorrhage of the Palatine Artery, 230.

Herniotomy in a Boar, 642.

Inner Tube in Stomach of Cow, Section of, 78.

Intravenous Injections, 83.

Milk Fever, An Emergency "Glucose" Treatment for, 229.

Milk Sickness, Directions for Making Pathological Tests of Materials Suspected of Causing, 774.

Proflavine and Acriflavine in the Carrier State in Bang's Abortion Disease of Cattle, The Therapeutic Value of, 231.

Prolapsed Rectum, A Complicated Case of, 507.

Rupture of the Diaphragm in a Cow, 74.

Scirrhus Cord in a Pig, 76.

Suggestions, Two Helpful, 228.

Testicular Transplant, A Successful, 384.

Tularemia, 387.

Commencements:

Alabama Polytechnic Institute, 650.

Colorado Agricultural College, 535.

Cornell University, 536.

Georgia State College of Agriculture, 660.

Iowa State College, 659.

Kansas State Agricultural College, 535.

Michigan State College, 535.

Ohio State University, 537.

Ontario Veterinary College, 400.

Pennsylvania, University of, 537.

Texas, A. & M. College of, 659.

United States College of Veterinary Surgeons, 538.

Washington, State College of, 536.

Communications:

Appreciated, March Issue, 244.

Booklet Stops Arguments, 395.

Honolulu in 1928, 94.

Impressed, Favorably, 94.

Information, Source of, 395.

Membership, Will Increase the, 244.

Philippines, From the, 395.

Practitioner, Benefits the, 94.

Reading, Good, 95.

Reports Published Annually, Wants, 244.

Editorials:

Advice, Free Veterinary, 417.

Applications, A Flood of, 555.

Case Reports, 1.

Certificate, Get a, 687.

Editorial, A Wonderful, 275.

Ethics Involved, 4.

Figures, A Few, 553.

Job, Help Finish the, 550.

Meetings, More About Veterinary, 415.

Meetings, The Winter, 142.

Notice, Important, 549.

Organization, A Worthy, 141.

Philadelphia, On to, 419.

Philadelphia, 1894, 688.

Service, An Opportunity for, 139.

Sigler Busy, President, 553.

Student Chapters, 276.

This Means You, 414.

Worthwhile, Something, 413.

Examinations, State Board 395.

Marriages 135, 272, 409, 545, 683, 810.

Meetings, Coming Veterinary, 7, 148, 279, 423, 559, 703.

Miscellaneous:

Accident, Prominent Veterinarians in Bad, 312.

Atlantic City, Big Meeting in, 367.

Bemis to Pennsylvania, Dr., 398.

Bemis, Dean Stange Feels Loss of Dr., 399.

Browning? How About This, Dr., 170.

Bureau Transfers, 93, 188, 390, 534, 741.

California, Annual Registration in, 554.

Campsites for Motorists, 567.

Casings Restricted, Importation of Animal, 573.

Cholera Cure, Claims, 8.

Corn Instead of Gasoline, 321.

Cuban Army Officers Resign, 617.

Detroit Veterinarians, Many Changes Among, 383.

Eastern Iowa Veterinarians Hold Picnic, 731.

Examination for Junior Veterinarian, 551, 782.

Exhibit of Students' Work, 690.

Farmer's Lament, A, 249.

Feeder Cattle, Testing, 530.
 Foam of Mad Dogs, The, 217.
 German Veterinarian Studying Here, 24.
 Giraffe Speechless, The, 394.
 Glenolden, Invitation to, 690.
 Idaho Has New State Veterinarian, 245.
 Iduate Returns, Dr., 70.
 Invitation, An, 664.
 Kaolin as a Therapeutic Agent, 51.
 K. S. A. C. Prizes, 400.
 Lancaster Wins Fight for Pure Milk, 532.
 Lockhart Withdraws from Kinsley Laboratories, Dr., 130.
 Medical Men Entertained, 243.
 Michigan Meeting, Joint, 407.
 Michigan News Items, 266.
 Milk Inspection Requires Trained Men, 255.
 Milk Question, To Study, 217.
 Minnesota Offers Fine Program, 541.
 Missouri Valley Meeting, 542.
 New One, A, 722.
 News Items, 170, 538, 584.
 Norden Laboratories Incorporated, 99.
 Packers and Stockyards Administration Abolished, 533.
 Pennsylvania Classes Plan Reunion, 130.
 Philadelphia from A to Z, See, 653.
 Pottsville, Pneumonia and Pathology, 85.
 Poultry Congress, World's, 805.
 Publication, New Veterinary, 722.
 Questions, Two Serious, 617.
 Railroad, Veterinarians Cooperate with, 526.
 Reciprocity Agreement, 402.
 Restricted Area Celebrates, 531.
 Rinderpest Vaccine Developed, 97.
 Saxophones, A Vest Pocket Essay on, 96.
 Scarlet Fever, Immunity to, 57.
 Schmidt Memorial Fund, 703.
 Serum and the Veterinarians, Good, 396.
 Sigler Has a Fall, President, 147.
 Sigler Hurt Again, President, 420.
 Snakeroot Exhibit, White, 246.
 Spanish Veterinarian Visits Here, 783.
 Steel Leaves Iowa, Doctor, 402.
 Swindler at Work, Another, 346.
 Tags a Serious Offense, Misuse of Cattle, 390.
 Texas Veterinarians to Meet, 266.
 Thermometers, Speaking of, 95.
 Tick Eradication Conference, 258.
 Trembles and Milk Sickness, 247.
 Troopers Protect Veterinarians in Pennsylvania, State, 727.
 Tuberculosis, More Counties Freed of Bovine, 295.
 Ultraviolet Ray, Glass Transmits, 640.
 Van Es, Dinner to Dr., 377.
 Veterinarians Recovering, Injured, 419.
 Visitors at the Journal Office, 699.
 Vitamin Studies, 211.

Necrology:

Apitz, Robert H., 408.
 Archibald, Robert W., 132.
 Barnes, Eugene, 808.
 Bousfield, Christopher J., 133.
 Brunson, George R., 270.
 Cale, Harry B., 270.
 Cattannach, Charles C., 408.
 Crawford, Leslie L., 133.
 Creighton, Albert J., 269.
 Crider, Clarence C., 544.
 Dean, George H., 682.
 Downing, Tom, 808.
 Everest, William H., 544.
 Faust, Otto, 7, 267.
 Frisch, Fred N., 543.
 Fuller, James W., 135.
 Gall, William, 808.
 Grogan, Joseph Patrick, 807.
 Hanshaw, Elisha, 134.
 Hendron, Samuel G., 131.
 Herron, Homer, 131.
 Hoagland, George C., 135.

Hoffman, F. F., 132.
 Holden, Henry Edward, 408.
 Hope, Thomas H., 408.
 Hough, Chester A., 543.
 Hust, Floyd P., 269.
 Irwin, J. J., 408.
 Jones, Harry, 132.
 Larzelere, Samuel D., 271.
 Lau, Elias Trostel, 270.
 Lumby, Charles Louis, 269.
 McDonald, Lyman E., 409.
 McDowell, Harris B., 268.
 Melton, David O., 545.
 Mitchell, Charles Rodger, 544.
 Nice, Wm. H., 408.
 O'Brien, Charles J., 135.
 Paxton, Cecil Monroe, 543.
 Pfenniger, Walter, 682.
 Purcell, John T., 270.
 Robertson, David D., 682.
 Scott, Martin W., 683.
 Spiker, Joseph Frederick, 271.
 Storey, M. A., 134.
 Street, Luther Lee, 544.
 Swedberg, A. W., 131.
 Trone, Wm. O., 808.
 Watkins, William F., 135.
 Weese, Clark M., 543.
 White, Thomas Elder, 807.
 Whiting, R. E., 682.

Papers:

(Abortion, Bovine Infectious.) Prevention, Control and Eradication in Pennsylvania, Bang Bacillus Disease, 322.
 (Abortion, Bovine Infectious.) Agglutination Test Results Obtained by Twelve Laboratories on Duplicate Sets of Five Bovine Sera, Bang Bacillus Disease, 578.
 Abortion in Mares, Studies on.
 I. The Diagnosis and Differential Diagnosis of Contagious Abortion, 25.
 II. The Results of Vaccination Against Contagious Abortion in Mares, 31.
 Anesthesia in Canine Surgery, The Auto-Inhalation Method of, 493.
 Bacterium Pullorum, Atypical Symptoms and Lesions Occurring in Chickens Harboring, 471.
 Balsam Mounts of Small Nematodes, Technique for Permanent, 473.
 Bang Bacillus Disease (Bovine Infectious Abortion). Prevention, Control and Eradication in Pennsylvania, 322.
 Bang Bacillus Disease (Bovine Infectious Abortion). Agglutination Test Results Obtained by Twelve Laboratories on Duplicate Sets of Five Bovine Sera, 578.
 Black Tongue, 296.
 Bursattee, Confirmatory Evidence that Habronema Larvae Are Not the Etiological Factor in, 52.
 Bursattee in Horses, An Apparently Hereditary Epithelial Defect Factor, the Possible Etiology of, 347.
 Convulsions in Dogs, 460.
 Copper Sulphate an Apparently Successful Therapeutic, *Ostertagia Ostertagi* in California Cattle, with, 560.
 Coyote Susceptible to Salmon Poisoning, 215.
 Danish Royal Veterinary and Agricultural College, Copenhagen, The Obstetrical Clinic at the, 35.
 Digestive Disturbances of Cattle, 9.
 Dipteran in the Ointment? Is There a, 618.
 Endocrine Glands with Reference to Veterinary Medicine, 313.
 Endometritis, Diffuse Cystic, 713.
 Endoscopy, Peroral, 304.
 Feeds and Feeding, Carnivorous, 339.
 Flies, Their Pathogenic Importance and Extermination, 574.
 Foxes, Efficacy of "Iodine Vermicide" Pills for the Treatment of Ascarid and Hookworm Infestations in Silver, 218.

Virginia State Veterinary Medical Association, 114.

Wabash Valley Veterinary Association, 675.

Births:..... 135, 272, 409, 545, 683, 810.

Book Reviews:

Anatomie des Pferdes, Atlas der (Atlas of the Anatomy of the Horse), 86.

Bacteriology, Manual of Veterinary, 646.

Breeding and Improvement of Farm Animals, 776.

Bureau of Animal Industry. Its History, Activities and Organization, The, 524.

Dachshund, The, 647.

Entwicklungsgeschichte der Haustiere, Lehrbuch der (Textbook of the Embryology of the Domesticated Animals), 86.

Geburtskunde, ein Physiologisches, Pathologisches und Geburtshilfliches Repetitorium für Tierärzte und Studierende, Tierärztliche, 87.

Operationslehre, Tierärztliche, 86.

Pathology and Therapeutics of the Diseases of Domestic Animals, Special, 388.

Pathologische Anatomie der Haustiere, Speziele (Special Pathological Anatomy of Domesticated Animals), 88.

Physiology of Reproduction in the Cow, The, 776.

Police Dog, Training the, 647.

Sanguinicola, Plehn, Morphologische, Systematische und Entwicklungs-geschichtliche Untersuchungen an Arten des Genus (Morphological, Systematical and Embryological Investigations on Species of the Genus *Sanguinicola*, Plehn, 235.

Staupe des Hundes und ihre Behandlung, Die (Dog Distemper and Its Treatment), 235.

Tierheilkunde und Tierzucht, Eine Enzyklopadie der Praktischen Nutztierkunde (Veterinary Science and Animal Husbandry), 235.

Veterinar-Medizin, Leistungen auf dem Gebiete der (Work in the Field of Veterinary Medicine), 88.

Clinical and Case Reports:

Abortion Disease of Cattle, The Therapeutic Value of Proflavine and Acriflavine in the Carrier State in Bang's, 231.

Actinobacillosis in a Feed-Lot, 71.

Bronchitis of Cattle, Verminous, 773.

Cases of Interest, Some, 514.

Cesarean Operation in a Cow Ten Months After Conceiving, 509.

Choke in the Cow, Relief of, 774.

Complexity of General Veterinary Practice, The, 79.

Drop-foot by Ankylosing Operation, Correcting Paralyzed, 641.

Dyspnea, Respiratory, 386.

Echinococcus Cysts in the Liver of Hogs, 643.

"Fantoche," 82.

Fat in Young Beef, Unusual Physical Properties of Muscle, 510.

Feather Cyst in a Gander, Due to Misplaced Tissue, A, 80.

"Glucose" Treatment for Milk Fever, An Emergency, 229.

Hemorrhage of the Palatine Artery, 230.

Herniotomy in a Boar, 642.

Inner Tube in Stomach of Cow, Section of, 78.

Intravenous Injections, 83.

Milk Fever, An Emergency "Glucose" Treatment for, 229.

Milk Sickness, Directions for Making Pathological Tests of Materials Suspected of Causing, 774.

Proflavine and Acriflavine in the Carrier State in Bang's Abortion Disease of Cattle, The Therapeutic Value of, 231.

Prolapsed Rectum, A Complicated Case of, 507.

Rupture of the Diaphragm in a Cow, 74.

Scirrhus Cord in a Pig, 76.

Suggestions, Two Helpful, 228.

Testicular Transplant, A Successful, 384.

Tularemia, 387.

Commencements:

Alabama Polytechnic Institute, 659.

Colorado Agricultural College, 535.

Cornell University, 536.

Georgia State College of Agriculture, 660.

Iowa State College, 659.

Kansas State Agricultural College, 535.

Michigan State College, 535.

Ohio State University, 537.

Ontario Veterinary College, 400.

Pennsylvania, University of, 537.

Texas, A. & M. College of, 659.

United States College of Veterinary Surgeons, 538.

Washington, State College of, 536.

Communications:

Appreciated, March Issue, 244.

Booklet Stops Arguments, 395.

Honolulu in 1928, 94.

Impressed, Favorably, 94.

Information, Source of, 395.

Membership, Will Increase the, 244.

Philippines, From the, 395.

Practitioner, Benefits the, 94.

Reading, Good, 95.

Reports Published Annually, Wants, 244.

Editorials:

Advice, Free Veterinary, 417.

Applications, A Flood of, 555.

Case Reports, 1.

Certificate, Get a, 687.

Editorial, A Wonderful, 275.

Ethics Involved, 4.

Figures, A Few, 553.

Job, Help Finish the, 550.

Meetings, More About Veterinary, 415.

Meetings, The Winter, 142.

Notice, Important, 549.

Organization, A Worthy, 141.

Philadelphia, On to, 419.

Philadelphia, 1894, 688.

Service, An Opportunity for, 139.

Sigler Busy, President, 553.

Student Chapters, 276.

This Means You, 414.

Worthwhile, Something, 413.

Examinations, State Board 395.

Marriages 135, 272, 409, 545, 683, 810.

Meetings, Coming Veterinary, 7, 148, 279, 423, 559, 703.

Miscellaneous:

Accident, Prominent Veterinarians in Bad, 312.

Atlantic City, Big Meeting in, 367.

Bemis to Pennsylvania, Dr., 398.

Bemis, Dean Stange Feels Loss of Dr., 399.

Browning? How About This, Dr., 170.

Bureau Transfers, 93, 188, 390, 534, 741.

California, Annual Registration in, 554.

Campsites for Motorists, 567.

Casings Restricted, Importation of Animal, 573.

Cholera Cure, Claims, 8.

Corn Instead of Gasoline, 321.

Cuban Army Officers Resign, 617.

Detroit Veterinarians, Many Changes Among, 383.

Eastern Iowa Veterinarians Hold Picnic, 731.

Examination for Junior Veterinarian, 551, 782.

Exhibit of Students' Work, 690.

Farmer's Lament, A, 249.

Feeder Cattle, Testing, 530.
 Foam of Mad Dogs, The, 217.
 German Veterinarian Studying Here, 24.
 Giraffe Speechless, The, 394.
 Glenolden, Invitation to, 690.
 Idaho Has New State Veterinarian, 245.
 Iduate Returns, Dr., 70.
 Invitation, An, 664.
 Kaolin as a Therapeutic Agent, 51.
 K. S. A. C. Prizes, 400.
 Lancaster Wins Fight for Pure Milk, 532.
 Lockhart Withdraws from Kinsley Laboratories, Dr., 130.
 Medical Men Entertained, 243.
 Michigan Meeting, Joint, 407.
 Michigan News Items, 266.
 Milk Inspection Requires Trained Men, 255.
 Milk Question, To Study, 217.
 Minnesota Offers Fine Program, 541.
 Missouri Valley Meeting, 542.
 New One, A, 722.
 News Items, 170, 538, 584.
 Norden Laboratories Incorporated, 99.
 Packers and Stockyards Administration Abolished, 533.
 Pennsylvania Classes Plan Reunion, 130.
 Philadelphia from A to Z, See, 653.
 Pottsville, Pneumonia and Pathology, 85.
 Poultry Congress, World's, 805.
 Publication, New Veterinary, 722.
 Questions, Two Serious, 617.
 Railroad, Veterinarians Cooperate with, 526.
 Reciprocity Agreement, 402.
 Restricted Area Celebrates, 531.
 Rinderpest Vaccine Developed, 97.
 Saxophones, A Vest Pocket Essay on, 96.
 Scarlet Fever, Immunity to, 57.
 Schmidt Memorial Fund, 703.
 Serum and the Veterinarians, Good, 396.
 Sigler Has a Fall, President, 147.
 Sigler Hurt Again, President, 420.
 Snakeroot Exhibit, White, 246.
 Spanish Veterinarian Visits Here, 783.
 Steel Leaves Iowa, Doctor, 402.
 Swindler at Work, Another, 346.
 Tags a Serious Offense, Misuse of Cattle, 390.
 Texas Veterinarians to Meet, 266.
 Thermometers, Speaking of, 95.
 Tick Eradication Conference, 258.
 Trembles and Milk Sickness, 247.
 Troopers Protect Veterinarians in Pennsylvania, State, 727.
 Tuberculosis, More Counties Freed of Bovine, 295.
 Ultraviolet Ray, Glass Transmits, 640.
 Van Es, Dinner to Dr., 377.
 Veterinarians Recovering, Injured, 419.
 Visitors at the Journal Office, 699.
 Vitamin Studies, 211.

Necrology:

Apitz, Robert H., 408.
 Archibald, Robert W., 132.
 Barnes, Eugene, 808.
 Bousfield, Christopher J., 133.
 Brunson, George R., 270.
 Cale, Harry B., 270.
 Cattannach, Charles C., 408.
 Crawford, Leslie L., 133.
 Creighton, Albert J., 269.
 Crider, Clarence C., 544.
 Dean, George H., 682.
 Downing, Tom, 808.
 Everest, William H., 544.
 Faust, Otto, 7, 267.
 Frisch, Fred N., 543.
 Fuller, James W., 135.
 Gall, William, 808.
 Grogan, Joseph Patrick, 807.
 Hanshaw, Elisha, 134.
 Hendron, Samuel G., 131.
 Herron, Homer, 131.
 Hoagland, George C., 135.

Hoffman, F. F., 132.
 Holden, Henry Edward, 408.
 Hope, Thomas H., 408.
 Hough, Chester A., 543.
 Hust, Floyd P., 269.
 Irwin, J. J., 408.
 Jones, Harry, 132.
 Larzelere, Samuel D., 271.
 Lau, Elias Trostel, 270.
 Lumby, Charles Louis, 269.
 McDonald, Lyman E., 409.
 McDowell, Harris B., 268.
 Melton, David O., 545.
 Mitchell, Charles Rodger, 544.
 Nice, Wm. H., 408.
 O'Brien, Charles J., 135.
 Paxton, Cecil Monroe, 543.
 Pfenniger, Walter, 682.
 Purcell, John T., 270.
 Robertson, David D., 682.
 Scott, Martin W., 683.
 Spiker, Joseph Frederick, 271.
 Storey, M. A., 134.
 Street, Luther Lee, 544.
 Swedberg, A. W., 131.
 Trone, Winslow O., 808.
 Watkins, William P., 135.
 Weese, Clark M., 543.
 White, Thomas Elder, 807.
 Whiting, R. E., 682.

Papers:

(Abortion, Bovine Infectious.) Prevention, Control and Eradication in Pennsylvania, Bang Bacillus Disease, 322.
 (Abortion, Bovine Infectious.) Agglutination Test Results Obtained by Twelve Laboratories on Duplicate Sets of Five Bovine Sera, Bang Bacillus Disease, 578.
 Abortion in Mares, Studies on.
 I. The Diagnosis and Differential Diagnosis of Contagious Abortion, 25.
 II. The Results of Vaccination Against Contagious Abortion in Mares, 31.
 Anesthesia in Canine Surgery, The Auto-Inhalation Method of, 493.
 Bacterium Pullorum, Atypical Symptoms and Lesions Occurring in Chicks Harboring, 471.
 Balsam Mounts of Small Nematodes, Technique for Permanent, 473.
 Bang Bacillus Disease (Bovine Infectious Abortion). Prevention, Control and Eradication in Pennsylvania, 322.
 Bang Bacillus Disease (Bovine Infectious Abortion). Agglutination Test Results Obtained by Twelve Laboratories on Duplicate Sets of Five Bovine Sera, 578.
 Black Tongue, 296.
 Bursattee, Confirmatory Evidence that Habronema Larvae Are Not the Etiological Factor in, 52.
 Bursattee in Horses. An Apparently Hereditary Epithelial Defect Factor, the Possible Etiology of, 347.
 Convulsions in Dogs, 460.
 Copper Sulphate an Apparently Successful Therapeutic, *Ostertagia Ostertagi* in California Cattle, with, 560.
 Coyote Susceptible to Salmon Poisoning, 215.
 Danish Royal Veterinary and Agricultural College, Copenhagen, The Obstetrical Clinic at the, 35.
 Digestive Disturbances of Cattle, 9.
 Dipteron in the Ointment? Is There a, 618.
 Endocrine Glands with Reference to Veterinary Medicine, 313.
 Endometritis, Diffuse Cystic, 713.
 Endoscopy, Peroral, 304.
 Feeds and Feeding, Carnivorous, 339.
 Flies, Their Pathogenic Importance and Extermination, 574.
 Foxes, Efficacy of "Iodine Vermicide" Pills for the Treatment of Ascarid and Hookworm Infestations in Silver, 218.

- Fowl Pox Prevention by Immunization, 750.
 (Frights Disease), Infectious Canine Meningo-Encephalitis, 281.
 Furfural as an Embalming Fluid, On the Use of, 728.
 Habronema Larvae Are Not the Etiological Factor in Bursattee, Confirmatory Evidence that, 52.
 Hereditary Epithelial Defect Factor, the Possible Etiology of Bursattee in Horses, An Apparent, 347.
 Hog Cholera Vaccination Breaks and Their Prevention, 58.
 "Hog Flu" and Its Seasonal Prevalence in Iowa, Some Observations on, 368.
 "Iodine Vermicide" Pills for the Treatment of Ascarid and Hookworm Infestations in Silver Foxes, Efficacy of, 218.
 Johne's Disease, Recent Developments in the Control of, 742.
 (Kidney Worm) of Hogs. Preliminary Report, Investigations of *Stephanurus Dentatus*, 361.
 Lameness of the Horse, Anatomical Changes in, 425.
 Liver-Fluke Infestation in Goats, A Treatment for, 723.
 Malignant Growths in Dogs and Horses, Some Studies in the Behavior of, 171.
 Mange, The Possible Role of Radiant Therapy in Demodectic, 607.
 Meat and Dairy Inspection in Maintaining the Health of Troops, The Importance of Veterinary, 475.
 Meat and Milk Hygiene, 568.
 Medication of Small Animals, Restraint and, 150.
 Meningo-Encephalitis (Frights Disease), Infectious Canine, 281.
 Nematodes, Technic for Permanent Balsam Mounts of Small, 473.
 Nightshade Family, Stock Poisoning by Plants in the, 221.
 Ophthalmia in Horses. Preliminary Report, Bacteriologic Observations on Periodic, 378.
Ostertagia Ostertagi in California Cattle, with Copper Sulphate an Apparently Successful Therapeutic, 560.
 Poisoning by Plants in the Nightshade Family, Stock, 221.
 Poultry Hygiene, 444.
 Poultry Diseases, Seasonal Distribution as an Aid to Diagnosis of, 764.
 Prevention, An Ounce of, 212.
 Protozoa of Domestic Animals, Pathogenic, 466.
 Reactor Cattle, Handling and Disposing of, 624.
 Restraint and Medication of Small Animals, 150.
 Salmon Poisoning, Coyote Susceptible to, 215.
 Skin Diseases, Diagnosis and Treatment of, 159.
 Snakes and Their Poisons, Facts About Texas, 704.
Stephanurus Dentatus (Kidney Worm) of Hogs. Preliminary Report, Investigations of, 361.
 Tetrachlorethylene, a New Anthelmintic, Studies on the Toxicity of, 189.
 Tuberculin, The Relationship of the Lethal Power to the Skin-Reacting Power of, 487.
 Tuberculosis in the Lungs of Swine, Parasitic Nodules Resembling, 39.
 Tuberculosis Eradication in Cattle, Swine and Poultry in Hillsdale County, Michigan, 451.
 Tuberculosis Research, 732.
 Turkey Diseases, Two Interesting, 635.
 Udder and Teats, Operations Upon the, 21.
 Veterinary Profession, The Growing Importance of the, 502.
 X-Ray and Small Animal Practice, The, 210.
 White Diarrhea, A Comparison of the Agglutination Test and the Intradermal Test in the Detection of Bacillary, 590.
 White Diarrhea, An Improved Antigen for the Agglutination Test in Bacillary, 600.
 White Diarrhea, Factors Influencing the Control of Bacillary, 585.
Personals 136, 272, 409, 545, 683, 810.
Publications Received, 84, 242, 393, 527.